

Kitae Kim

List of Publications by Year in descending order

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54
papers

1,349
citations

331670

21
h-index

361022

35
g-index

54
all docs

54
docs citations

54
times ranked

1533
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of Periodate by Freezing for the Degradation of Aqueous Organic Pollutants. Environmental Science & Technology, 2018, 52, 5378-5385.	10.0	101
2	Enhanced Redox Conversion of Chromate and Arsenite in Ice. Environmental Science & Technology, 2011, 45, 2202-2208.	10.0	100
3	Photoreductive Dissolution of Iron Oxides Trapped in Ice and Its Environmental Implications. Environmental Science & Technology, 2010, 44, 4142-4148.	10.0	95
4	Homogeneous photocatalytic Fe ³⁺ /Fe ²⁺ redox cycle for simultaneous Cr(VI) reduction and organic pollutant oxidation: Roles of hydroxyl radical and degradation intermediates. Journal of Hazardous Materials, 2019, 372, 121-128.	12.4	82
5	Arsenite Oxidation Initiated by the UV Photolysis of Nitrite and Nitrate. Environmental Science & Technology, 2014, 48, 4030-4037.	10.0	76
6	Production of Molecular Iodine and Tri-iodide in the Frozen Solution of Iodide: Implication for Polar Atmosphere. Environmental Science & Technology, 2016, 50, 1280-1287.	10.0	67
7	Reviews and syntheses: Ocean iron fertilization experiments “past, present, and future looking to a future Korean Iron Fertilization Experiment in the Southern Ocean (KIFES) project. Biogeosciences, 2018, 15, 5847-5889.	3.3	60
8	Enhanced Removal of Hexavalent Chromium in the Presence of H ₂ O ₂ in Frozen Aqueous Solutions. Environmental Science & Technology, 2015, 49, 10937-10944.	10.0	50
9	Freezing-Enhanced Dissolution of Iron Oxides: Effects of Inorganic Acid Anions. Environmental Science & Technology, 2015, 49, 12816-12822.	10.0	41
10	Accelerated redox reaction between chromate and phenolic pollutants during freezing. Journal of Hazardous Materials, 2017, 329, 330-338.	12.4	41
11	Enhanced Dissolution of Manganese Oxide in Ice Compared to Aqueous Phase under Illuminated and Dark Conditions. Environmental Science & Technology, 2012, 46, 13160-13166.	10.0	38
12	Electrochemical Production of Hydrogen Coupled with the Oxidation of Arsenite. Environmental Science & Technology, 2014, 48, 2059-2066.	10.0	34
13	Spatial and temporal variabilities of spring Asian dust events and their impacts on chlorophyll <i>a</i> concentrations in the western North Pacific Ocean. Geophysical Research Letters, 2017, 44, 1474-1482.	4.0	33
14	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAM-Chem Global Chemistry-Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2259-2289.	3.8	31
15	Nitrite-Induced Activation of Iodate into Molecular Iodine in Frozen Solution. Environmental Science & Technology, 2019, 53, 4892-4900.	10.0	31
16	Ny-Ålesund-oriented organic pollutants in sewage effluent and receiving seawater in the Arctic region of Kongsfjorden. Environmental Pollution, 2020, 258, 113792.	7.5	30
17	Optimization of suspect and non-target analytical methods using GC/TOF for prioritization of emerging contaminants in the Arctic environment. Ecotoxicology and Environmental Safety, 2019, 181, 11-17.	6.0	29
18	Freezing-enhanced reduction of chromate by nitrite. Science of the Total Environment, 2017, 590-591, 107-113.	8.0	26

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19	Titanium dioxide surface modified with both palladium and fluoride as an efficient photocatalyst for the degradation of urea. Separation and Purification Technology, 2019, 209, 580-587.	7.9	26
20	Ligand-Specific Dissolution of Iron Oxides in Frozen Solutions. Environmental Science & Technology, 2018, 52, 13766-13773.	10.0	22
21	Abiotic Formation of Humic-Like Substances through Freezing-Accelerated Reaction of Phenolic Compounds and Nitrite. Environmental Science & Technology, 2019, 53, 7410-7418.	10.0	22
22	Freezing-accelerated removal of chromate by biochar synthesized from waste rice husk. Separation and Purification Technology, 2020, 250, 117233.	7.9	20
23	Reductive Transformation of Hexavalent Chromium in Ice Decreases Chromium Toxicity in Aquatic Animals. Environmental Science & Technology, 2022, 56, 3503-3513.	10.0	20
24	Simultaneous and Synergic Production of Bioavailable Iron and Reactive Iodine Species in Ice. Environmental Science & Technology, 2019, 53, 7355-7362.	10.0	19
25	Freezing-enhanced non-radical oxidation of organic pollutants by peroxymonosulfate. Chemical Engineering Journal, 2020, 388, 124226.	12.7	17
26	Freeze-Thaw Cycle-Enhanced Transformation of Iodide to Organoiodine Compounds in the Presence of Natural Organic Matter and Fe(III). Environmental Science & Technology, 2022, 56, 1007-1016.	10.0	17
27	Activation of peroxymonosulfate by bicarbonate and acceleration of the reaction by freezing. Science of the Total Environment, 2021, 785, 147369.	8.0	16
28	Enhanced sensitivity of fluorescence-based Fe(II) detection by freezing. Chemical Communications, 2019, 55, 12136-12139.	4.1	15
29	Freezing-Induced Simultaneous Reduction of Chromate and Production of Molecular Iodine: Mechanism, Kinetics, and Practical Implications. Environmental Science & Technology, 2020, 54, 16204-16211.	10.0	14
30	Cr(VI) Formation via Oxyhalide-Induced Oxidative Dissolution of Chromium Oxide/Hydroxide in Aqueous and Frozen Solution. Environmental Science & Technology, 2020, 54, 14413-14421.	10.0	14
31	Atmospheric deposition of inorganic nutrients to the Western North Pacific Ocean. Science of the Total Environment, 2021, 793, 148401.	8.0	14
32	Relationship between magnetic susceptibility and sediment grain size since the last glacial period in the Southern Ocean off the northern Antarctic Peninsula – Linkages between the cryosphere and atmospheric circulation. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 505, 359-370.	2.3	11
33	Large seasonal and interannual variations of biogenic sulfur compounds in the Arctic atmosphere (Svalbard; 78.9°N, 11.9°E). Atmospheric Chemistry and Physics, 2021, 21, 9761-9777.	4.9	11
34	First-year sea ice leads to an increase in dimethyl sulfide-induced particle formation in the Antarctic Peninsula. Science of the Total Environment, 2022, 803, 150002.	8.0	11
35	Reductive transformation of hexavalent chromium by ferrous ions in a frozen environment: Mechanism, kinetics, and environmental implications. Ecotoxicology and Environmental Safety, 2021, 208, 111735.	6.0	11
36	Enhanced reduction of hexavalent chromium by hydrogen sulfide in frozen solution. Separation and Purification Technology, 2020, 251, 117377.	7.9	10

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37	Frozen Hydrogen Peroxide and Nitrite Solution: The Acceleration of Benzoic Acid Oxidation via the Decreased pH in Ice. <i>Environmental Science & Technology</i> , 2022, 56, 2323-2333.	10.0	10
38	Sulfuric Acid Formation via H_2SO_3 Oxidation by H_2O_2 in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8385-8390.	2.5	9
39	Hydrochemical characteristics of groundwater and stream water in a karst area of Samcheok, Korea. <i>Journal of the Geological Society of Korea</i> , 2019, 55, 117-129.	0.7	8
40	Atmospheric Dry Deposition of Water-Soluble Nitrogen to the Subarctic Western North Pacific Ocean during Summer. <i>Atmosphere</i> , 2019, 10, 351.	2.3	7
41	Temperature elevation stage-specifically increases metal toxicity through bioconcentration and impairment of antioxidant defense systems in juvenile and adult marine mysids. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 237, 108831.	2.6	7
42	Freezing-induced activation of the binary chloride-Oxone system to free chlorine and its application in water treatment. <i>Chemical Engineering Journal</i> , 2022, 428, 131134.	12.7	7
43	Chemical Weathering of Granite in Ice and Its Implication for Weathering in Polar Regions. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 185.	2.0	6
44	Accelerated chromate reduction by tea waste: Comparison of chromate reduction properties between water and ice systems. <i>Environmental Research</i> , 2021, 197, 111059.	7.5	6
45	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	3.2	6
46	Estimation of thermal diffusivity of soils in Antarctica using temperature time series data. <i>Episodes</i> , 2019, 42, 245-252.	1.2	6
47	Antarctic ozone hole modifies iodine geochemistry on the Antarctic Plateau. <i>Nature Communications</i> , 2021, 12, 5836.	12.8	6
48	Use of spent coffee ground as a reducing agent for enhanced reduction of chromate by freezing process. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 310-316.	5.8	5
49	First High-Frequency Underway Observation of DMS Distribution in the Southern Ocean during Austral Autumn. <i>Atmosphere</i> , 2021, 12, 122.	2.3	4
50	Protection of Alcohol Dehydrogenase against Freeze-Thaw Stress by Ice-Binding Proteins Is Proportional to Their Ice Recrystallization Inhibition Property. <i>Marine Drugs</i> , 2020, 18, 638.	4.6	3
51	Ten-Minute Synthesis of Highly Conductive Polymer Nanosheets on Ice Surfaces: Role of Ice Crystallinity. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100565.	3.9	2
52	Entangled iodine and hydrogen peroxide formation in ice. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16532-16535.	2.8	1
53	Freezing-enhanced oxidation of iodide by hydrogen peroxide in the presence of antifreeze proteins from the Arctic yeast <i>Leucosporidium</i> sp. AY30. <i>Environmental Research</i> , 2022, 212, 113233.	7.5	1
54	Redox Conversion of Organic and Inorganic Pollutants in Ice. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0